

**TECHNICAL MEETING  
4 MAY 1999  
MEETING MINUTES**

**MEETING ATTENDEES**

Tony Williams, IR Program Coordinator	NAS Brunswick, Public Works Environmental
Emil Klawitter, Remedial Project Manager	Northern Division, NAVFACENGCOM
Carolyn Lepage, TAG Consultant	Lepage Environmental Services
Mike Barry, Project Manager	U.S. Environmental Protection Agency, Region I
Claudia Sait, Project Manager	Maine Department of Environmental Protection
Larry Dearborn, Project Geologist	Maine Department of Environmental Protection
Peter Nimmer, Project Geologist	EA Engineering, Science, and Technology
Suzanne Chase, Geologist	EA Engineering, Science, and Technology

**MEETING DATE**

4 May 1999, 12:30 a.m.

**MEETING LOCATION**

Bachelor Officer Quarters Conference Room,  
Naval Air Station, Brunswick, Maine

**1. INTRODUCTION**

Emil Klawitter opened the meeting. Topics for discussion included: (1) NAS Brunswick schedule, (2) Eastern Plume, (3) Site 7 ground-water results, (4) Site 9 vinyl chloride detection levels, and (5) site visit to Site 2 and seep areas/wetlands on Eastern Plume. Agenda for meeting is attached. Emil provided handouts for the NAS Brunswick schedule.

**2. NAS BRUNSWICK SCHEDULE**

The NAS Brunswick schedule was provided as a handout and had been sent via email. Emil Klawitter discussed status of the schedule:

- Site 2—Work Plan was sent out 3 May 1999 ahead of schedule. Comments requested from regulators on/before 22 June 1999. Draft Long-Term Monitoring Plan is due 24 June 1999.
- Site 9—PRAP went out a couple weeks late, but Navy feels it is possible to make up that time with the ROD. The Navy would like to do a concurrent review of the ROD with the PRAP Public Comment Period. Due to this timing, there will be no responsiveness summary in the Draft ROD. It was noted that the signed ROD is before the Final on the schedule, and the Navy will attempt to make up the time difference.
- Sites 7 and 12—There will not be a No Further Action PRAP. Based on ground-water sample results at Site 7, the Navy will consider other options for Site 7.

- Sites 14, 15, 16, and 18—The State is assuming that the debris removal and magnetometer survey were done at Site 15. Site visit will be conducted to look at these sites prior to Consensus Statement being finalized.
- Building 95—The Navy suggested a conference call (11 May at 9:30 tentative) to discuss site receptors and whether the shrew is the most appropriate risk assessor. It is necessary to have the receptors agreed upon to complete the risk calculations. Emil will send an email scheduling the call. Claudia Sait will talk to Katie Zeeman to see if she is available for this discussion.

It was noted that the shrew is the most sensitive receptor, but the Building 95 site does not appear to have the habitat for this animal due to the small size of the site.

Claudia Sait asked if it was necessary to include the U.S. Fish and Wildlife in these discussions. Tony noted that Steve had mentioned that the site is so small, U.S. Fish and Wildlife is not concerned about ecological risk. Carolyn Lepage stated that since U.S. Fish and Wildlife was involved in the past, it would be appropriate to consult him. Claudia will check with Steve to see if he wants to be involved.

Emil noted that the Navy does not want to see institutional controls at Building 95 and is interested in resolving this ecological risk issue.

### **3. EASTERN PLUME**

#### **Radian Site Visit in July**

Fran Slavitch (with Radian Corporation) will be conducting a site visit on 20-21 July 1999. The Navy would like to get technical RAB members involved. Radian will be looking at optimization of the treatment plant and extraction system. Larry Dearborn asked if they will be looking at historical data. Emil Klawitter said that they will have access to everything since the start of the Ground-Water Extraction and Treatment System.

Tony Williams stated that it will be nice to have an outside third opinion.

Pete Nimmer mentioned that the revised well book and GIS should be done by then.

Claudia Sait asked if Fred LaValle, MEDEP's engineer, needs to be there. Emil said that he should be invited to the in-brief, which will be an opening presentation and a round table. Questions on this review process will be answered at the in-brief.

#### **MW-230A/B Head Difference**

Well gauging was completed at MEDEP's request. Head differences measured at MW-230A/B during the field effort for Monitoring Event 14 showed an upward gradient of approximately 1.5 ft between the shallow and deep wells in this well pair. Results will be included in the Monitoring Event 14 Report.

## **Seep Areas/Wetlands at Eastern Plume**

Due to time constraints, a site visit was not conducted during this meeting but was rescheduled for 5 May 1999.

The Navy is looking to discuss with the State the issues that need to be addressed. The Navy does not want to add additional surface water sampling to the Long-Term Monitoring Plan, but is willing to address specific concerns outside the Long-Term Monitoring Plan at this time. The Navy would like everyone to review the 1998 Annual Report, list any concerns they have, and provide recommendations.

Claudia Sait is concerned and needs to make sure that seeps are not a problem. The State has some money and could spend some time looking into it.

Mike Barry said that we can have it looked at like the direct-push investigations and results may change the Long-Term Monitoring Plan. Recent results show that there is not an impact, and gradients have been reversed in the vicinity of EW-2A.

Pete Nimmer suggested a technical meeting to discuss this. Larry Dearborn agreed and would like to schedule the meeting this summer.

## **GIS**

The GIS will be available in June 1999. The Navy would like to schedule a meeting in July to provide training on the GIS project to demonstrate capabilities. Several locations were discussed but a location has not been determined at this time.

## **4. SITE 7 GROUND-WATER RESULTS**

Cadmium was detected in one well (MW-NASB-094) at Site 7 at concentrations above MEG during recent sampling. Contamination seems to be localized to the area of Site 7 near this monitoring well. The Navy discussed whether removal of soil and pumping ground water at the site would rectify this issue. The Navy prefers to do soil removal or other actions over institutional controls at the site.

Emil asked if MEDEP has clean fill numbers. Tony Williams mentioned using the fill at Site 2. Emil said that soil samples would be collected if a removal is to be done. Carolyn Lepage asked why the soil would be dug up if the contamination is in the ground water. Emil stated that cadmium is most likely impacting ground water from the soil.

Previous soil sampling showed cadmium was higher in the surficial soil than the subsurface soil. Pete Nimmer asked if the contamination could have been brought down when the well was installed.

Claudia Sait indicated the best option would be to remove the soil and pump the ground water. The State would like to install a new well closer to the contamination. The discussion was tabled until the RAB Meeting on 5 May 1999.

## **5. SITE 9 VINYL CHLORIDE DETECTION LEVELS**

The State noted EPA Methods 502.2 and 524.2 can achieve the drinking water limit, however, they have a detection limit of 0.5 µg/L. The MEG for vinyl chloride is 0.15 µg/L. The Navy noted that Method 8260 SIM has a detection limit of 0.15 µg/L. Claudia Sait noted the State chemist mentioned that Method 8260 SIM may give a false-positive, but it will not give a false-negative. The State is OK with using 8260 SIM. It is not EPA approved, but it is often used to achieve the 0.15 µg/L detection limit.

The Navy sees using that method when a well is to be deleted from the sampling program. The method will not be used at a well where vinyl chloride is known to be above 2 µg/L, as established using EPA Method 8260. Tony Williams suggested collecting a split sample to rule out a false-positive using this method.

It was noted that the removal methods for wells from sampling should be included in the Long-Term Monitoring Plan for Site 9.

## **6. SITE VISIT**

A site visit was conducted at Site 2. A location was selected for the new monitoring well (see attached figure).

## **Attachments**

**May 4, 1999**

Start at 12:30 pm

Schedule

Eastern Plume

- Radian Site Visit in July
- MW230A/230B Head Differences
- Seep Areas/wetlands (possible discharge of Eastern plume)

Site 7 GW Results

Site 9 VC Detection levels

Field Visit

- Site 2
- Seep areas/wetlands on Eastern Plume

**May 5, 1999**

RAB

0900 to 1200

I. Introduction

II. Site 2 – Landfill Debris Removal and Bank Stabilization

III. Site 7 – Well Sampling Results (Update RAB on previous days discussions)

IV. Site 9 – Proposed Plan (Request input on public meeting)

V. Eastern Plume

A. Event 14

B. System Optimization

C. Long Term Monitoring Plan Revision

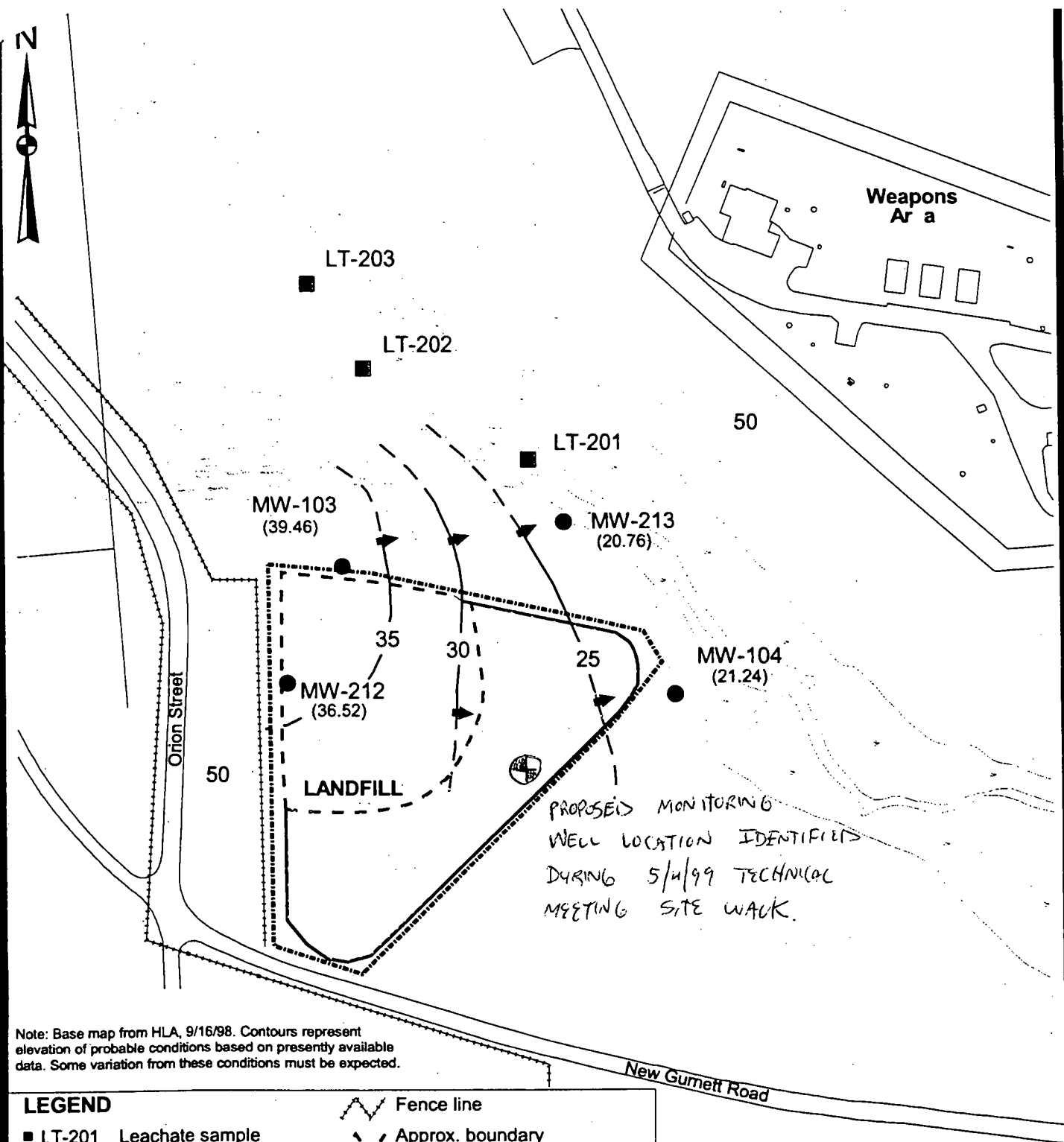
D. Annual Reports

**OTHER ISSUES/FUTURE MEETINGS**

Field Visit

1:00pm

NFA Sites



# LEGEND

- LT-201 Leachate sample
- MW-213 Monitoring well (watertable elevation; 20.76 FT MSL)
- ➔ Interpreted direction and ground water flow
- 35 — 10 ft surface contours
- ~ Roads and buildings
- ~ Surface water features

- Fence line
- - - Approx. boundary of site 2 landfill
- - - Approx. minimum area for application of land use restriction
- 35 - Interpreted potentiometric surface; contour interval = 5 ft
- Scattered surface debris

100 0 100 200 Feet



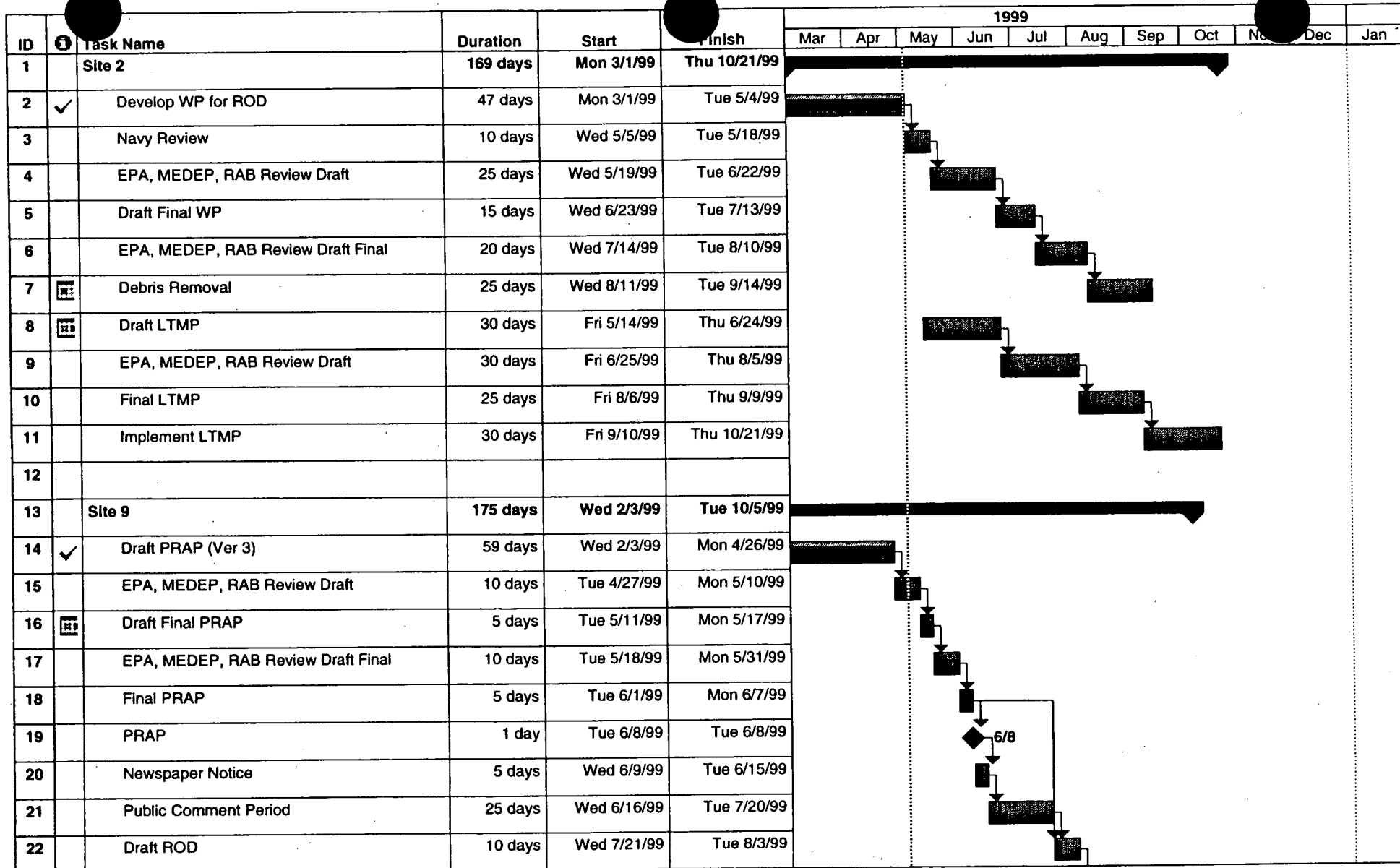
EA ENGINEERING,  
SCIENCE, AND  
TECHNOLOGY

NAVAL AIR STATION  
BRUNSWICK, MAINE

FIGURE I  
INTERPRETED WATERTABLE ELEVATIONS  
MARCH 4, 1999 WELL GAUGING DATA

PROJECT MGR	DESIGNED BY	DRAWN BY	CHECKED BY	SCALE	DATE	PROJECT No	FILE No
PLN	BT	BT	PLN	AS SHOWN	31 MARCH 1999	29600.47	I:\NASB_GIS INAVY.APR

Harbour



Project: Schedule  
Date: Tue 5/4/99

Task

Progress

Milestone

Summary

Rolled Up Task

Rolled Up Milestone

Rolled Up Progress

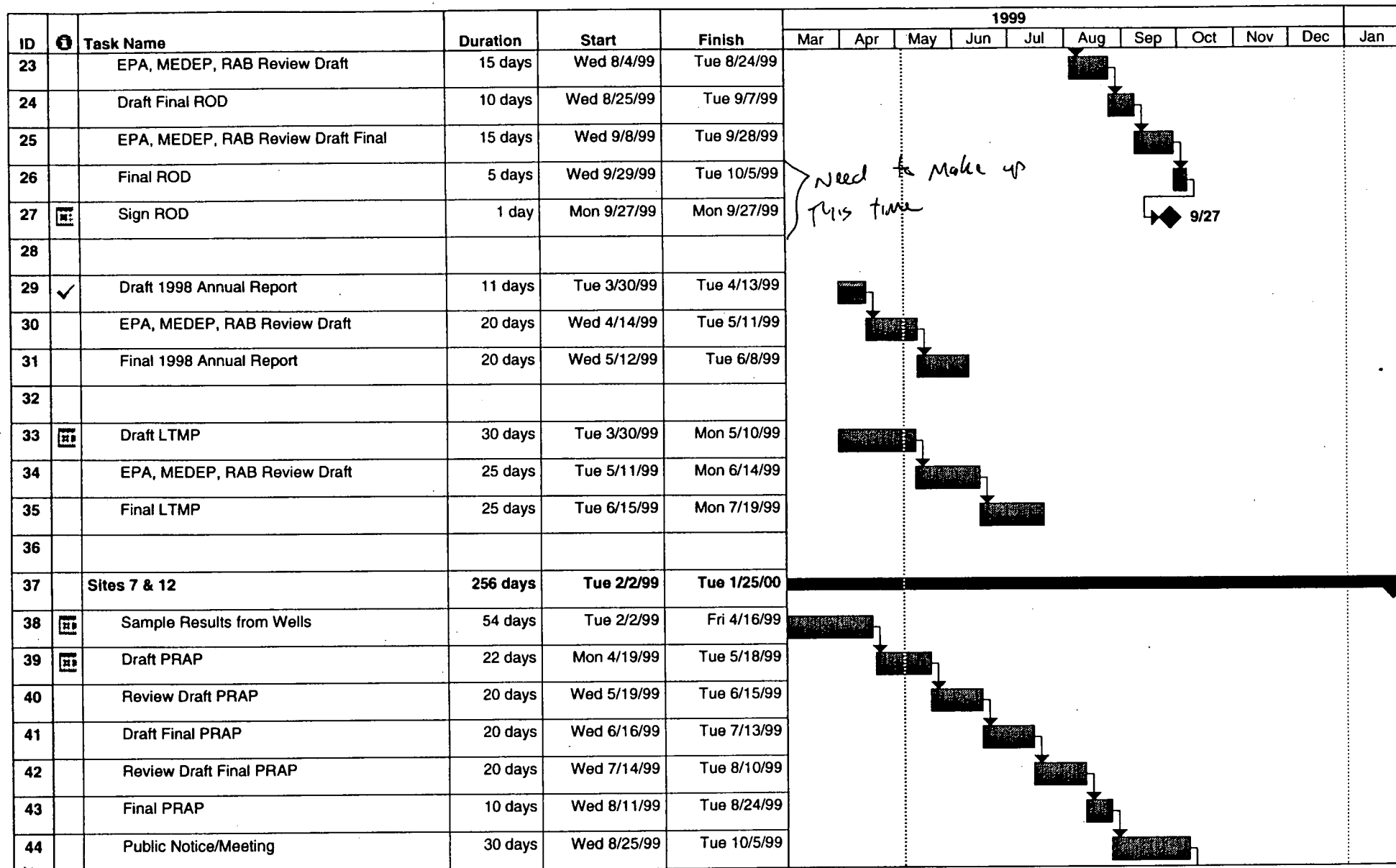
External Tasks

Project Summary

Split

Rolled Up Split





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Date: Tue 5/4/99

Task

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					1999											
ID	Task Name	Duration	Start	Finish	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	
45	Draft ROD	20 days	Wed 10/6/99	Tue 11/2/99												
46	Review Draft ROD	20 days	Wed 11/3/99	Tue 11/30/99												
47	Draft Final ROD	20 days	Wed 12/1/99	Tue 12/28/99												
48	Final ROD	20 days	Wed 12/29/99	Tue 1/25/00												
49																
50	Sit s 14, 15, 16, and 18	70 days	Fri 2/5/99	Thu 5/13/99												
51	✓ Draft Consensus Statement	20 days	Fri 2/5/99	Thu 3/4/99												
52	EPA, MEDEP & RAB Review	25 days	Fri 3/5/99	Thu 4/8/99												
53	Address Comments	20 days	Fri 4/9/99	Thu 5/6/99												
54	Final Consensus Statement	5 days	Fri 5/7/99	Thu 5/13/99												
55																
56																
57	Building 95	118 days	Tue 3/30/99	Thu 9/9/99												
58	Draft Risk Eco Risk Assess	45 days	Fri 4/9/99	Thu 6/10/99												
59	EPA, MEDEP & RAB Review	45 days	Fri 6/11/99	Thu 8/12/99												
60	Consensus Statement	20 days	Fri 8/13/99	Thu 9/9/99												
61																
62	✓ Draft 1998 Annual Report	11 days	Tue 3/30/99	Tue 4/13/99												
63	EPA, MEDEP, RAB Review Draft	25 days	Wed 4/14/99	Tue 5/18/99												
64	Final 1998 Annual Report	20 days	Wed 5/19/99	Tue 6/15/99												
65																
66	Draft LTMP	45 days	Tue 3/30/99	Mon 5/31/99												

Project: Schedule  
Date: Tue 5/4/99

Task

Progress

Milestone

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Rolled Up Task

Rolled Up Milestone

Rolled Up Progress

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Split

Rolled Up Split

					1999												
ID	❶	Task Name	Duration	Start	Finish	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	
67		EPA, MEDEP, RAB Review Draft	25 days	Tue 6/1/99	Mon 7/5/99				■	↓							
68	■	Final LTMP	20 days	Tue 7/6/99	Mon 8/2/99					■							
69																	
70		Sites 1,3 & Eastern Plume	100 days	Wed 3/17/99	Tue 8/3/99	■											
71	■	Draft 1998 Annual Report	50 days	Wed 3/17/99	Tue 5/25/99	■			↓								
72	■	EPA, MEDEP, RAB Review Draft	30 days	Wed 5/26/99	Tue 7/6/99				■	↓							
73		Final 1998 Annual Report	20 days	Wed 7/7/99	Tue 8/3/99					■							
74																	
75	■	Draft LTMP	45 days	Tue 3/30/99	Mon 5/31/99		■		↓								
76		EPA, MEDEP, RAB Review Draft	25 days	Tue 6/1/99	Mon 7/5/99				■	↓							
77		Monitoring Event 15	20 days	Tue 7/6/99	Mon 8/2/99					■							
78																	
79		5 Year Review	195 days	Tue 3/30/99	Mon 12/27/99	■											
80	■	Draft 5 Year Review	120 days	Tue 3/30/99	Mon 9/13/99	■											
81		EPA, MEDEP, RAB Review Draft	20 days	Tue 9/14/99	Mon 10/11/99							■	↓				
82		Draft Final 5 Year Review	20 days	Tue 10/12/99	Mon 11/8/99								■	↓			
83		EPA, MEDEP, RAB Review Draft	20 days	Tue 11/9/99	Mon 12/6/99									■	↓		
84		Final 5 Year Review	15 days	Tue 12/7/99	Mon 12/27/99										■		
85																	
86	■	Monitoring Event 14	14 days	Mon 4/5/99	Thu 4/22/99		◆ 4/5										
87	■	Monitoring Event 15	14 days	Mon 9/6/99	Thu 9/23/99								◆ 9/6				
88	■	Building 95 Annual Sampling (ME11)	14 days	Mon 8/2/99	Thu 8/19/99					◆ 8/2							

Project: Schedule  
Date: Tue 5/4/99

Task

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Rolled Up Milestone

Rolled Up Progress

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Rolled Up Split